



Supplemental Figure 5. The distribution of CTSK and F4/80 *in vivo* was detected by immunofluorescence co-location staining. IF staining of CTSK and F4/80 *in vivo*. F4/80 is the surface marker protein of macrophages. The white arrow indicates the macrophage expressing CTSK. Control: untreated DBA/J1 mice; *P.g*: mice orally infected with *Porphyromonas gingivalis*; CIA: mice with collagen-induced arthritis (CIA); GFP: mice received empty AAV vectors (AAV-U6-CAG-EGFP).